ExxonMobil
Signature Polymers

A foundation for innovation – our worldwide technical centers

Our technology centers are strategically located to ensure accessibility from any location, featuring cutting-edge facilities equipped with advanced equipment, laboratories, design and testing capabilities. These centers are complemented by an exceptional network of polymer and solution experts, fostering a collaborative and supportive atmosphere to research the latest resins, plastics and products that will meet the challenges of tomorrow.

Speed and simplify design efforts

Rapid testing, prototyping and optimizing

Maximize efficiency

Baytown Technology and Engineering Complex

The Baytown Technology & Engineering Complex is one of ExxonMobil's largest global technology centers, located within the greater ExxonMobil Baytown Complex. It is home to cutting-edge catalyst and polymers research, which has led to ground-breaking innovations in applications ranging from food packaging to construction.

Click to learn more about BTEC

European Technology Center (Brussels)

As a European hub for chemical innovation, the European Technology Center contributes to innovative and solutions that address global societal challenges. The ETC researches applied process and product technology, and pioneers the development of business planning options.

In-depth expertise exists at ETC covering:

- Determining physical properties, chemical composition, molecular structure of chemicals, linking it with the performance of the materials;
- Use of lab and pilot scale equipment for the simulation of production processes that we can upscale for commercial use in our production facilities;
- State-of-the-art apparatus for catalyst development and analysis; supported by a broad range of advanced characterization techniques;
- Equipment for processing polymers on a commercial scale to simulate the use of our polymer products by our customers. This involves, among other things, film blowing, casting and lamination.

The specialists who work at the ETC develop and apply knowledge and share the results with ExxonMobil business units all over the world so that they can take a leading position in their respective targeted markets.

ETC researchers also work closely with leading European and Belgian universities to continuously challenge the scientific status quo and to advance our fundamental understanding of materials.

Click to learn more about ETC

Shanghai Technology Center

Shanghai is home to one of ExxonMobil's largest customer-facing technology centers. As a market-facing campus with more than 40 Ph. D. scientists on staff, STC develops and delivers innovative solutions to our customers throughout China and Asia Pacific. Located in the Minhang District near the Jiao Tong University and East China Normal University, our state-of-the-art laboratories lead our product application and testing process to improve polymers.

The expanding capabilities of the facility facilitate enhanced value delivery through various specialized labs. The fabrication lab is equipped with industry-scale conversion capabilities and encompasses the entire polyethylene packaging value chain, ensuring comprehensive production processes.

Additionally, the testing laboratory is fully equipped to conduct a wide range of physical tests for polyethylene, polypropylene, and elastomers.

Furthermore, the analytical laboratory is dedicated to advanced characterization techniques and the exploration of novel chemistry. It plays a crucial role in the development of innovative solutions and the enhancement of material properties, thereby supporting the overarching goal of delivering superior value to clients. This extensive testing capability allows for thorough evaluation and quality assurance of materials, contributing to the overall reliability of the products.

Click to watch the video

Bengaluru Research & Development Technology Center

ExxonMobil's Bengaluru Research and Development Technology Centre (BRDTC) is the state-of-the-art technology center located in Bengaluru, India started in 1998. Today the team of Research Technologists, Customer Application Development Engineers are engaged in providing technical solutions to the Polyethylene, Polypropylene & Elastomer businesses.

BRDTC is home to cutting edge technologies to evaluate properties of performance products with a full-fledged processing & advance properties testing set up. It is equipped with processing technologies such as injection molding, blow molding and extrusion to simulate the use of our products in real life scenarios. It also has advanced analytical capabilities as well as physical & rheological test capabilities.

The team here works closely with the entire value chain including converters, brand owners, equipment manufacturers, industry associations and regulators regionally and globally. When it comes to performance products, our goal at the BRDTC is to do more with less - helping our customers to redesign & develop products which are lighter & stronger. We also focus on blending recycled materials with new ones while maintaining product performance in demanding applications.

Click to learn more about BRDTC

Dayawan Technology Center

ExxonMobil has been investing in new technologies and innovations in both our facilities and products to meet market evolving needs. Co-located with Huizhou Chemical Complex in the Dayawan Industrial Park, we are also progressing Dayawan Technology Center which had ground-breaking in February 2023. The overall civil work will be completed by end of 2024 and officially put into operation in 2025. It equips the first polypropylene pilot unit outside North America which enables us to accelerate differentiated performance polypropylenes development. Meanwhile, DTC will also focus on new chemistry, process technology and scale-up developments.

ExxonMobil
Signature Polymers

Bring your impossible

ExxonMobil Signature Polymers was born from the belief that people fuel progress. From automotive and construction to packaging, agriculture, industrial, and beyond, we leverage the scale and reach of ExxonMobil to deliver the insights and innovations that empower our diverse, global partners to take their businesses to new heights. We continuously work to provide the listen-first, service-driven, game-changing collaboration that unlocks opportunities for our partners and advances their sustainability and business goals.